1875. Telegraph (NS-75-002)

Tracings follow other notes and drawings.

July 13 1875

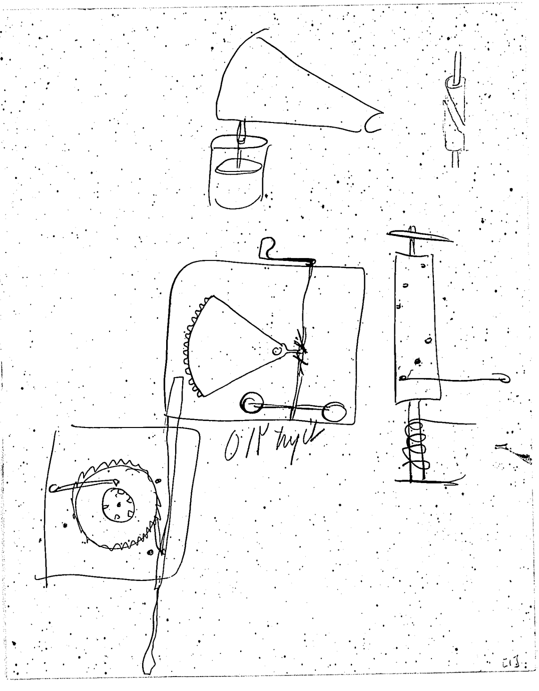
Domestic Telegraph
Hotel Annunciator
Experiments

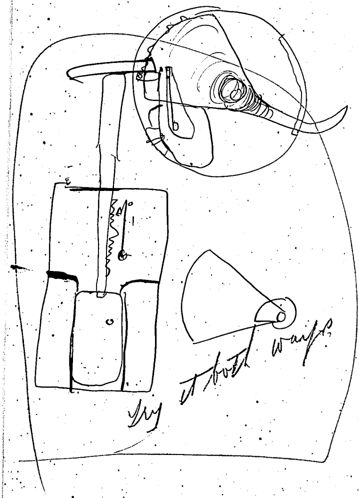
To be tried

130		1500
20		
150		

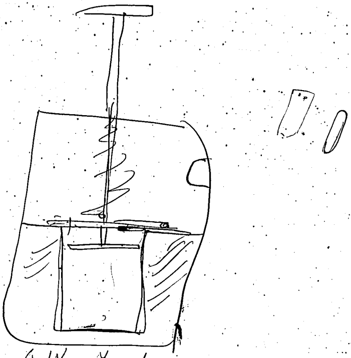
1500 Boxes at 2 3000
1 Recorder — 200
1 Relay — 16.

Used in law suit: Edison vs. A & P. & Domestic Telg. Co. Apr 1878


Off trigr
[1]



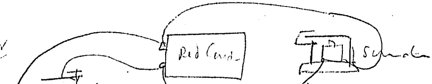
Try it both ways?



Oil Tryck

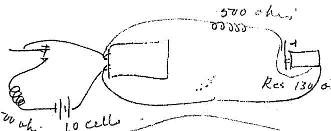
Nov 2 1875

Edison
Chas Batchelor



Red Cond.
Sounder
2 cells batty

sounder too low resist to allow Conden to charge?



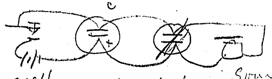
500 ohms
Relay
Res 130 ohms
500 ohms
10 cells

apparently the Condenser sends a reverse charge thro relay & kills the residual magnetism

With or without resis',
pulling in Condenser ~~[illegible]~~
~~Relay discharge made~~ makes adjustment
relay work sharp on an
that the relay stuck ~~not~~ altogether
(4c) about 2 sec after opening on ordinary treatment with the paper & no conden for relay discharge

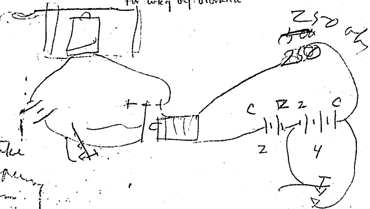
Nov 21 1875

c & copper etched in secondary battery X



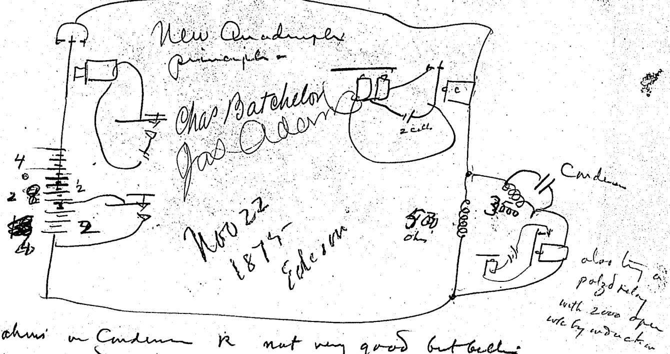
first class Sounder
dots far apart keeps sounder
closed, the longer the dots
the greater time sounder is
closed good for acoustic Telgn
for wkg by vibration

T A Edison
Chas Batchelor X



Weight hat x dent
work very well =
but on closing
Relay Key the jump
makes the down stroke
on the sounder & on opening
the other jump makes
the back stroke. sound perfect & beautiful without the
~~noise~~ & the writing: a sounder lever touching the backpoint This dispenses
necessity of the sounder with the polarized relay in the Quadruplex

I think that if the back point relay C had a second coil with a local & r coil so as to balance the permanent current it might work better though it might reverse a current & make it worse

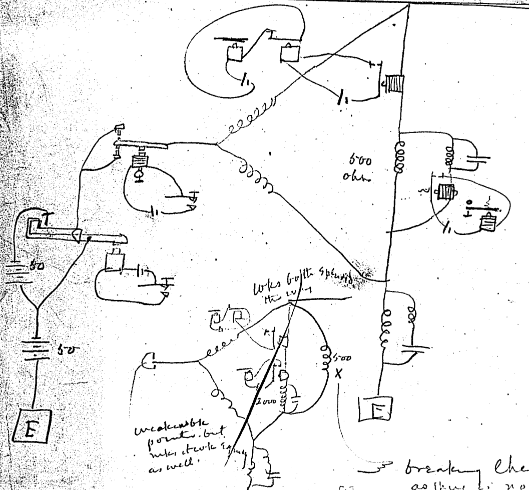

4
2
2
2
C
2 cell
Condensr
3500
500 ohs
also try a polzd relay with 2000 open wk by induction

New Quadruplex principle =

Chas Batchelor
Jas Adams

Nov 22 1875
Edison

with 1000 ohms in Condensr R not very good but better than if no r was used or Condr used, but when they made 3500, the dead open relay works perfectly splendid, and the backpoint relay works better than when reversed Currents are used / altogether this arrangement is a grand success


50
50
E
500 ohs
500
X
2000
E
Wks better splendid this way
weakenable points. but wks it works equally as well.

New Quadruplex principle =

Nov 22 1875

T A Edison
Chas Batchelor

→ breaking the shunt X busts up dead open as there is no route for the Condenser

[2]

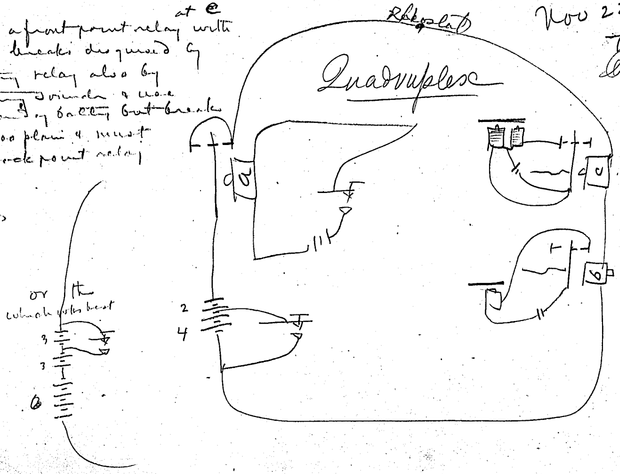
Tried a front point relay at @ with total breaks disguised by shunting relay also by shunting sounder & wire of second by battery but breaks show too plain & must use back point relay

Nov 22 1875—

T A Edison

Chas Batchelor

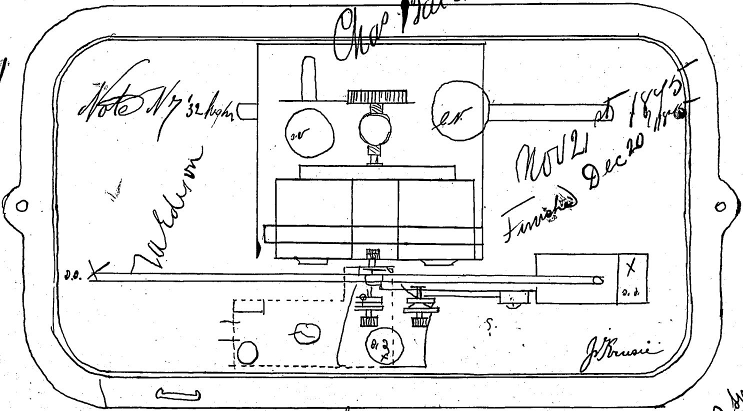
Quadruplex



This works perfectly if magnet of a & spring of a is so adjusted that it opens & closes lever in equal time. relay b open & close twice each forward & backward movement of lever of "a" and all down strokes on sounder were beautiful, The total breakage does not open c so bad as reversals; Shunting @ b with a condr makes it worse

[3]

11


o.v
e.v.
o.o.
o.d.
X
X

Chas Batchelor

Note N7 32 higher

TA Edison

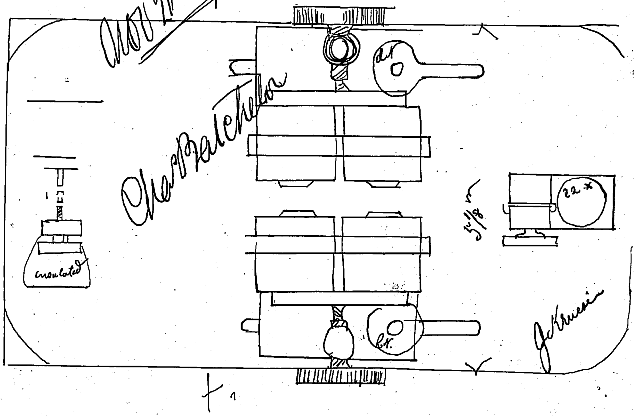
Nov 21 st 1878

Finished Dec 20 1878

J Kruesi

R Spice

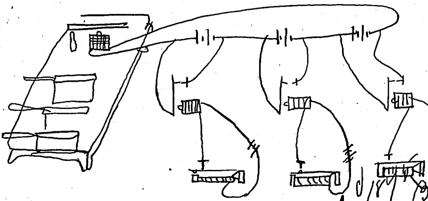
2 of these


dr
R.V.
22 x
3 1/8 in
granulated

Aug 21st 1875

Chas Batchelor

J Kruesi

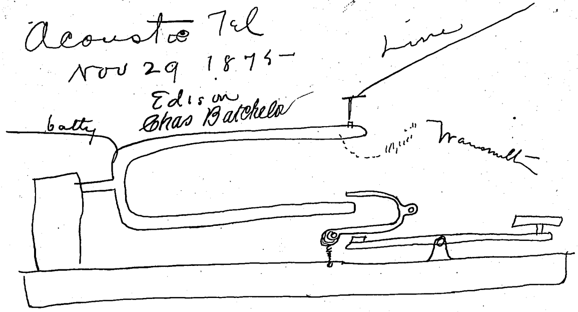


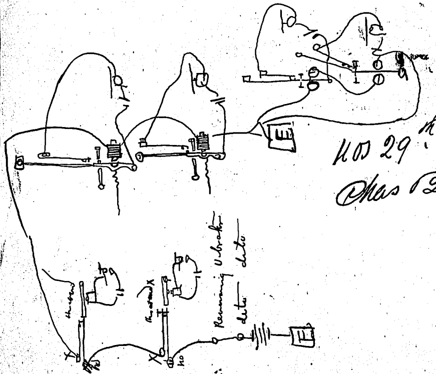
Try this Nov 26 1877 Chas Batchelor

Exhibit D
Case 116

Acoustic Tel
Nov 29 1875—

Edison
Chas Batchelor


Line
batty
Transmitt—


X
X
ho
Running Vibrator
ditto
ditto

Nov 29th 1875

Chas Batchelor